

IN THE CLAIMS:

Please amend claims 18 and 28; and add new claims 38-47 as follows:

Claims 1-17 (canceled).

18. (Currently amended) An optical disk recording device, comprising:  
disk-applicable-recording-speed information reproducing means for reproducing,  
from among disk readout signals generated by reading an optical disk to be recorded  
on, both disk-applicable-recording-speed information pre-recorded on a track of the  
optical disk during manufacture of the optical disk and information indicative of a type  
and a maker of the optical disk, the information being pre-recorded on a track of the  
optical disk during manufacture of the optical disk; and

control means for performing recording on the optical disk after setting a  
recording speed for the optical disk to a predetermined speed value within a range  
specified by the disk-applicable-recording-speed information reproduced by said disk-  
applicable-recording-speed information reproducing means.

19. (Original) An optical disk recording device as recited in claim 18,  
wherein said disk-applicable-recording-speed information reproducing means  
reproduces the disk-applicable-recording-speed-information pre-recorded in pre-groove  
wobbles or pre-pits of the optical disk.

20. (Original) An optical disk recording device for recording on an optical  
disk where disk-applicable-recording-speed information is incorporated in at least one  
of lead-in start time information and lead-out start time information recorded in pre-  
groove wobbles or pre-pits of the optical disk during manufacture of the optical disk,  
said optical disk recording device comprising:

time information reproducing means for reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk during manufacture of the optical disk; and

control means for determining disk-applicable recording speeds based on at least one of the lead-in start time information and the lead-out start time information reproduced by said time information reproducing means, and for performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the determined disk-applicable recording speeds.

21. (Original) An optical disk recording device as recited in claim 20, wherein the disk-applicable-recording-speed information is information indicative of an upper limit value of disk-applicable recording speeds incorporated in the lead-in start time information or the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical dish and wherein said control means sets the recording speed for the optical disk to a speed value not exceeding the upper limit value of the disk-applicable recording speeds.

22. (Original) An optical disk recording device for recording on a recordable optical disk where one of lower and upper limit values of disk-applicable recording speeds is incorporated in lead-in start time information recorded in pre-groove wobbles or pre-pits of the optical disk and another of the lower and upper limit values of the disk-applicable recording speeds is incorporated in lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk, said optical disk

recording device comprising:

time information reproducing means for reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk; and

control means for determining one of the lower and upper limit values of the disk-applicable recording speeds based on the lead-in start time information reproduced by said time information reproducing means and another of the lower and upper limit values of the disk-applicable recording speeds based on the lead-out start time information reproduced by said time information reproducing means, and for performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the lower limit value to the upper limit value of the disk-applicable recording speeds.

23. (Original) An optical disk recording device for recording on a recordable optical disk where both of lower and upper limit values of disk-applicable recording speeds are incorporated in at least one of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording device comprising:

time information reproducing means for reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, the lead-in start time information or the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk during manufacture of the optical disk; and

control means for determining the lower and upper limit values of the disk-applicable recording speeds based on the lead-in start time information or the lead-out start time information reproduced by said time information reproducing means, and for performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the lower limit value to the upper limit value of the disk-applicable recording speeds.

24. (Original) An optical disk recording device as recited in claim 18, wherein said control means sets the recording speed to a highest speed value settable within a range of the disk-applicable recording speeds.

25. (Original) An optical disk recording device, comprising:  
disk-applicable-recording-speed information reproducing means for reproducing, from among disk readout signals generated by reading an optical disk to be recorded on, disk-applicable-recording-speed information pre-recorded on a track of the optical disk during manufacture of the optical disk;

display means for displaying disk-applicable recording speeds based on the disk-applicable-recording-speed information reproduced by said disk-applicable-recording-speed information reproducing means;

recording speed designating means for designating a particular recording speed value based on an operation by a user; and

control means for performing recording on the optical disk after setting a recording speed for the optical disk to the particular recording speed value designated by said recording speed designating means.

26. (Original) An optical disk recording device as recited in claim 25, wherein the disk-applicable-recording-speed information reproducing means reproduces the disk-applicable-recording-speed information pre-recorded in pre-groove wobbles or pre-pits of the optical disk.

27. (Original) An optical disk recording device for recording on a recordable optical disk where disk-applicable-recording-speed information is incorporated in at least one of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording device comprising:

disk-applicable-recording-speed information storage means for storing therein correspondencies between values of at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk and values of disk-applicable recording speeds;

time information reproducing means for reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk;

display means for displaying the disk-applicable-recording-speed information that is read out from said disk-applicable-recording-speed information storage means based on at least one of the lead-in start time information and the lead-out start time information reproduced by said time information reproducing means;

recording speed designating means for designating a particular recording speed

value based on an operation by a user; and

control means for performing recording on the optical disk after setting a recording speed for the optical disk to the particular recording speed value designated by said recording speed designating means.

28. (Currently amended) An optical disk recording method, comprising:  
reproducing, from among disk readout signals generated by reading an optical disk to be recorded on, both disk-applicable-recording-speed information pre-recorded on a track of the optical disk during manufacture of the optical disk and information indicative of a type and a maker of the optical disk, the information being pre-recorded on a track of the optical disk during manufacture of the optical disk; and

performing recording on the optical disk after setting a recording speed for the optical disk to a predetermined speed value within a range specified by the disk-applicable-recording-speed information.

29. (Original) An optical disk recording method as recited in claim 28, wherein in said reproducing the disk-applicable-recording-speed information, the disk-applicable-recording-speed information pre-recorded in pre-groove wobbles or pre-pits of the optical disk is reproduced.

30. (Original) An optical disk recording method for recording on an optical disk where disk-applicable-recording-speed information is incorporated in at least one of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording method comprising:

reproducing, from among disk readout signals generated by reading the optical

disk to be recorded on, either one or both of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk;

determining disk-applicable recording speeds based on at least one of the lead-in start time information and the lead-out start time information; and

performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the determined disk-applicable recording speeds.

31. (Original) An optical disk recording method as recited in claim 30, wherein the disk-applicable-recording-speed information is information indicative of an upper limit value of disk-applicable recording speeds incorporated in the lead-in start time information or the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk, and wherein the recording speed for the optical disk is set to a speed value not exceeding the upper limit value of the disk-applicable recording speeds.

32. (Original) An optical disk recording method for recording on a recordable optical disk where one of lower and upper limit values of disk-applicable recording speeds is incorporated in lead-in start time information recorded in pre-groove wobbles or pre-pits of the optical disk and another of the lower and upper limit values of the disk-applicable recording speeds is incorporated in lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk, said optical disk recording method comprising:

reproducing, from among disk readout signals generated by reading the optical

disk to be recorded on, the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk;

determining one of the lower and upper limit values of the disk-applicable recording speeds based on the lead-in start time information and another of the lower and upper limit values of the disk-applicable recording speeds based on the lead-out start time information; and

performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the lower limit value to the upper limit value of the disk-applicable recording speeds.

33. (Original) An optical disk recording method for recording on a recordable optical disk where both of lower and upper limit values of disk-applicable recording speeds are incorporated in either one or both of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording method comprising:

reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, the lead-in start time information or the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk during manufacture of the optical disk;

determining the lower and upper limit values of the disk-applicable recording speeds based on the lead-in start time information or the lead-out start time information; and

performing recording on the optical disk after setting a recording speed for the



optical disk to a speed value within a range of the lower limit value to the upper limit value of the disk-applicable recording speeds.

34. (Original) An optical disk recording method as recited in claim 28, wherein the recording speed is set to a highest speed value settable within a range of the disk-applicable recording speeds.

35. (Original) An optical disk recording method, comprising:  
reproducing, from among disk readout signals generated by reading an optical disk to be recorded on, disk-applicable-recording-speed information pre-recorded on a track of the optical disk during manufacture of the optical disk;  
displaying disk-applicable recording speeds based on the disk-applicable-recording-speed information;  
designating a particular recording speed value based on an operation by a user;  
and  
performing recording on the optical disk after setting a recording speed for the optical disk to the particular recording speed value designated.

36. (Original) An optical disk recording method as recited in claim 35, wherein the disk-applicable-recording-speed information pre-recorded in pre-groove wobbles or pre-pits of the optical disk is reproduced.

37. (Original) An optical disk recording method for recording on a recordable optical disk where disk-applicable-recording-speed information is incorporated in at least one of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording method comprising:

storing correspondencies between values of at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk during manufacture of the optical disk and values of disk-applicable recording speeds;

reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk;

displaying the read out disk-applicable-recording-speed information based on at least one of the lead-in start time information and the lead-out start time information;

designating a particular recording speed value based on an operation by a user;  
and

performing recording on the optical disk after setting a recording speed for the optical disk to the particular recording speed value designated.

38. (Original) An optical disk recording device as recited in claim 18, wherein the disk-applicable-recording-speed information is indicative of an upper limit value of applicable recording speeds.

39. (New) An optical disk recording device as recited in claim 18, wherein the disk-applicable-recording-speed information is indicative of lower and upper limit values of applicable recording speeds.

40. (New) An optical disk recording method as recited in claim 28, wherein the disk-applicable-recording-speed information is indicative of an upper limit value of applicable recording speeds.

41. (New) An optical disk recording method as recited in claim 28, wherein the disk-applicable-recording-speed information is indicative of lower and upper limit values of applicable recording speeds.

42. (New) An optical recording system comprising:

a recordable optical disk where disk-applicable-recording-speed information indicative of applicable recording speeds for the optical disk is pre-recorded on a track of said optical disk during manufacture of the optical disk; and

an optical disk recording device including,

an disk-applicable-recording-speed information reproducing circuit that reproduces the disk-applicable-recording-speed information from the recordable optical disk;

a display unit that displays disk-applicable recording speeds on the basis of the disk-applicable-recording-speed information reproduced by the disk-applicable-recording-speed information reproducing circuit;

a recording speed designating section that designates a particular recording speed value, on the basis of an operation by a user, among from the displayed disk-applicable recording speeds; and

a control circuit to perform recording on the optical disk after setting a recording speed for said recordable optical disk to the particular recording speed value designated by said recording speed designating section.

43. (New) An optical recording method comprising;

pre-recording disk-applicable-recording-speed information on a track of an optical disk during manufacture of the optical disk, the disk-applicable-recording-speed

information being indicative of applicable recording speeds for said optical disk,  
reproducing the disk-applicable-recording-speed information from the recordable optical  
disk before said disk is recorded by a recorder;

displaying disk-applicable recording speeds on the basis of the reproduced disk-  
applicable-recording-speed information;

designating a particular recording speed value, on the basis of an operation by a  
user, among from the displayed disk-applicable recording speeds, and

recording on the optical disk after setting a recording speed for the recordable  
optical disk to the designated particular recording speed value.

44. (New) A recordable optical disk where disk-applicable-recording-speed  
information indicative of applicable recording speeds for said optical disk is pre-  
recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the  
optical disk, the disk-applicable-recording-speed information being capable of being  
reproduced as disk-applicable recording speed displayed on a display device of a  
recording device, and

where information indicative of a type and maker of said optical disk is  
incorporated in time information pre-recorded on a track of said optical.  
disk during manufacture of said optical disk.

45. (New) The recordable optical disk as recited in claim 40 wherein the disk-  
applicable-recording-speed information is information indicative of an upper limit value  
of the applicable recording speeds.

46. (New) The recordable optical disk as recited in claim 40, wherein the disk-  
applicable-recording-speed information is information indicative of lower and upper limit

values of the applicable recording speeds.

47. (New) A recordable optical disk where disk-applicable-recording-speed information indicative of applicable recording speeds for the optical disk is pre-recorded in pre-groove wobbles or pre-pits of a track of the optical disk during manufacture of the optical disk, the disk-applicable-recording-speed information being capable of being reproduced as disk-applicable recording speed displayed on a display device of a recording device, and

where information indicative of a type and a maker of the optical disk is incorporated in time information pre-recorded on the optical disk during manufacture of said optical disk, thereby the information indicative of a type and maker of said optical disk is reproduced by the recording device.

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